

## VE7834

60M True 4K HDMI Active Optical Cable (True 4K@60m)



ATEN VE7834 optical cable utilizes AOC technology that enables conversion between input signals and optical signals for optimum high bandwidth data transmissions. The EMI-resistant optical cable is available in 60 m with full support of True 4K resolutions. It is fully compliant with HDCP 2.2 standards and meets HDMI specifications including 3D, deep color, and data rates up to 18 Gbps. Supported Dolby True HD and DTS-HD Master Audio, the optical cable guarantees lossless audio signal transmissions.

Engineered to meet the latest trend of integrator-friendly design, the VE7834 optical cable features pluggable gender and gold-plated connectors. Therefore, the cable is an ideal solution for extending the reach of your digital signage in a wide range of settings, such as traffic stations, shopping centers, and hospital facilities.



### Features

- HDMI (3D, Deep Color, True 4K); HDCP 2.2 compliant
- Extends True 4K signals (4096 x 2160 @ 60Hz 4:4:4) up to 60 m
- Supports HDR
- Reduced EMI and RFI for lower noise interference
- Supports multi audio channel – Dolby TrueHD and DTS-HD Master Audio
- Robust cable pulling strength (Max.10 kg) and compression load resistance (Max.50 kg)
- Additional power source is available via Micro USB cable for better compatibility
- Gold-plated connectors for reliable transmissions
- Compliant with International Flame Retardant Standards : UL CMP-OF (Plenum)
- Pluggable gender for easy installation
- Plug-and-play

### Specifications

|                |                                                                                                                                            |
|----------------|--------------------------------------------------------------------------------------------------------------------------------------------|
| Certifications |                                                                                                                                            |
| Certifications | Safety and Emission: CE / FCC / RoHS2 / UL CMP-OF                                                                                          |
| Notification   | Bend Radius: 6mm (Min.)<br>Connector Pull Strength: Max. 10kg (100N)<br>Compression Load Resistance: Max. 50kg (500N)<br>Reduced EMI & RFI |

|                             |                                                                                                                                                                                                                                                                                                                |
|-----------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Jacketed                    |                                                                                                                                                                                                                                                                                                                |
| Material                    | UL Plenum (CMP-OF)                                                                                                                                                                                                                                                                                             |
| Conductor                   |                                                                                                                                                                                                                                                                                                                |
| Construction                | 6 x Insulated Copper wire (28 AWG)<br>4 x Fiber                                                                                                                                                                                                                                                                |
| Cable Length                | 60M / 196.85ft                                                                                                                                                                                                                                                                                                 |
| Communication               |                                                                                                                                                                                                                                                                                                                |
| Signals                     | TMD5 / HDCP 2.2 / EDID / CEC                                                                                                                                                                                                                                                                                   |
| Power (Optional)            | Optional power source: Micro USB to USB cable (45cm)<br>5V, 0.148A                                                                                                                                                                                                                                             |
| Audio                       |                                                                                                                                                                                                                                                                                                                |
| Input                       | PCM 8-channel, Dolby Digital True HD, DTS-HD Master Audio                                                                                                                                                                                                                                                      |
| Output                      | PCM 8-channel, Dolby Digital True HD, DTS-HD Master Audio                                                                                                                                                                                                                                                      |
| Cable Type                  | Cable Type: Hybrid optical with fiber and copper wire<br>HDMI Standards: High Speed HDMI Cable                                                                                                                                                                                                                 |
| Video Input                 |                                                                                                                                                                                                                                                                                                                |
| Interfaces                  | 1 x HDMI 19-pin Type-A Male (gold-plated) pluggable (Black)<br>1 x HDMI Type-D Male (Black)                                                                                                                                                                                                                    |
| Video Output                |                                                                                                                                                                                                                                                                                                                |
| Interfaces                  | 1 x HDMI 19-pin Type-A Male (gold-plated) pluggable (Black)<br>1 x HDMI Type-D Male (Black)                                                                                                                                                                                                                    |
| Video                       |                                                                                                                                                                                                                                                                                                                |
| Max. Data Rate              | 18 Gbps (6 Gbps per Channel)                                                                                                                                                                                                                                                                                   |
| Max. Pixel Clock            | 600 MHz (Max.)                                                                                                                                                                                                                                                                                                 |
| Compliance                  | HDMI (3D, Deep Color, 4K, HDR)<br>HDCP 2.2<br>Color sub-sampling: 4:4:4 / 4:2:2 / 4:2:0<br>Color Depth: 30 / 36 / 48 bit                                                                                                                                                                                       |
| Max. Resolutions / Distance | Up to 4096 x 2160 / 3840 x 2160 @ 60Hz (4:4:4) / 60m                                                                                                                                                                                                                                                           |
| Power Consumption           | DC5.3V:0.63W:2.15BTU/h<br><br>Note:<br><ul style="list-style-type: none"> <li>● The measurement in Watts indicates the typical power consumption of the device with no external loading.</li> <li>● The measurement in BTU/h indicates the power consumption of the device when it is fully loaded.</li> </ul> |
| Environmental               |                                                                                                                                                                                                                                                                                                                |
| Operating Temperature       | 0°C to 50°C (32°F to 122°F)                                                                                                                                                                                                                                                                                    |
| Storage Temperature         | -20°C to 70°C (-4°F to 158°F)                                                                                                                                                                                                                                                                                  |
| Humidity                    | 0 - 85% RH, Non-Condensing                                                                                                                                                                                                                                                                                     |

| Physical Properties   |                                                       |
|-----------------------|-------------------------------------------------------|
| Housing               | Connector Case: ABS (Acrylonitrile Butadiene Styrene) |
| Weight                | 1.00 kg ( 2.2 lb )                                    |
| Cable Outer Dimension | Cable Outer Diameter: 3.4mm (± 0.2mm)                 |
| Conductor Gauge       | Copper wire (28 AWG)                                  |
| Conductor Material    | Copper                                                |
| Unit weight           | 1.0 kg / 2.2 lb                                       |
| Carton Lot            | 5 pcs                                                 |

### Diagram





Simply Better Connections

***ATEN International Co., Ltd.***

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